



180402_nakamura hMSC

Experiment

| | | | |
|---------------|------------------------------|--------------------|---------------------|
| Creation Date | 04/02/2018 21:29:43 | Last Modified Date | 04/03/2018 09:30:18 |
| Operator | System Admin | Owner | System Admin |
| Start Time | 04/02/2018 21:31:53 | End Time | 04/02/2018 22:55:23 |
| Run State | Completed | Software Version | LCS480 1.5.1.62 |
| Macro | | Macro Owner | |
| Macro Status | | | |
| Templates | SYBR Green I_THUNDERBIRDqPCR | Plate ID | 02917241 |
| Test ID | | Lot ID | |
| Color Comp ID | | | |
| Run Notes | | | |

Programs

| Program Name | pre-incubation | | | | | | |
|--------------|------------------|-----------------|------------------|-----------------------|-----------------|----------------|---------------------|
| Cycles | 1 | Analysis Mode | None | | | | |
| Target (°C) | Acquisition Mode | Hold (hh:mm:ss) | Ramp Rate (°C/s) | Acquisitions (per °C) | Sec Target (°C) | Step size (°C) | Step Delay (cycles) |
| 95 | None | 00:01:00 | 4.80 | | 0 | 0 | 0 |

| Program Name | amplification | | | | | | |
|--------------|------------------|-----------------|------------------|-----------------------|-----------------|----------------|---------------------|
| Cycles | 45 | Analysis Mode | Quantification | | | | |
| Target (°C) | Acquisition Mode | Hold (hh:mm:ss) | Ramp Rate (°C/s) | Acquisitions (per °C) | Sec Target (°C) | Step size (°C) | Step Delay (cycles) |
| 95 | None | 00:00:15 | 4.80 | | 0 | 0 | 0 |
| 60 | None | 00:00:15 | 2.50 | | 0 | 0 | 0 |
| 72 | Single | 00:00:45 | 4.80 | | 0 | 0 | 0 |

| Program Name | melting curve | | | | | | |
|--------------|------------------|-----------------|------------------|-----------------------|-----------------|----------------|---------------------|
| Cycles | 1 | Analysis Mode | Melting Curves | | | | |
| Target (°C) | Acquisition Mode | Hold (hh:mm:ss) | Ramp Rate (°C/s) | Acquisitions (per °C) | Sec Target (°C) | Step size (°C) | Step Delay (cycles) |
| 95 | None | 00:00:05 | 4.80 | | 0 | 0 | 0 |
| 65 | None | 00:01:00 | 2.50 | | 0 | 0 | 0 |
| 97 | Continuous | | 0.11 | 5 | 0 | 0 | 0 |

| Program Name | cooling | | | | | | |
|--------------|------------------|-----------------|------------------|-----------------------|-----------------|----------------|---------------------|
| Cycles | 1 | Analysis Mode | None | | | | |
| Target (°C) | Acquisition Mode | Hold (hh:mm:ss) | Ramp Rate (°C/s) | Acquisitions (per °C) | Sec Target (°C) | Step size (°C) | Step Delay (cycles) |

| Target (°C) | Acquisition Mode | Hold (hh:mm:ss) | Ramp Rate (°C/s) | Acquisitions (per °C) | Sec Target (°C) | Step size (°C) | Step Delay (cycles) |
|-------------|------------------|-----------------|------------------|-----------------------|-----------------|----------------|---------------------|
| 40 | None | 00:00:30 | 2.50 | | 0 | 0 | 0 |

Samples

| | | | | | |
|--------------|------------|-------|----------|--------------|--|
| Sample Count | | 24 | | | |
| Subset | | h36B4 | | | |
| Pos | Name | ID | Repl. Of | Sample Notes | |
| A19 | Sample 19 | | | | |
| A20 | Sample 20 | | | | |
| B20 | Sample 44 | | | | |
| C19 | Sample 67 | | | | |
| C20 | Sample 68 | | | | |
| D20 | Sample 92 | | | | |
| E19 | Sample 115 | | | | |
| E20 | Sample 116 | | | | |
| F20 | Sample 140 | | | | |
| G19 | Sample 163 | | | | |
| G20 | Sample 164 | | | | |
| H20 | Sample 188 | | | | |
| I19 | Sample 211 | | | | |
| I20 | Sample 212 | | | | |
| J20 | Sample 236 | | | | |
| K19 | Sample 259 | | | | |
| K20 | Sample 260 | | | | |
| L20 | Sample 284 | | | | |
| M19 | Sample 307 | | | | |
| M20 | Sample 308 | | | | |
| N20 | Sample 332 | | | | |
| O19 | Sample 355 | | | | |
| O20 | Sample 356 | | | | |
| P20 | Sample 380 | | | | |

Revision History

| Revision | Date | User | Reason |
|----------|------|------|--------|
| | | | |

Abs Quant/2nd Derivative Max for h36B4 (Abs Quant/2nd Derivative Max)

Settings

| | | | |
|--------------------|-----------------|-------|--|
| Channel | 483-533 | | |
| Color Compensation | Off | | |
| Program | amplification | Units | |
| Mode | High Confidence | | |

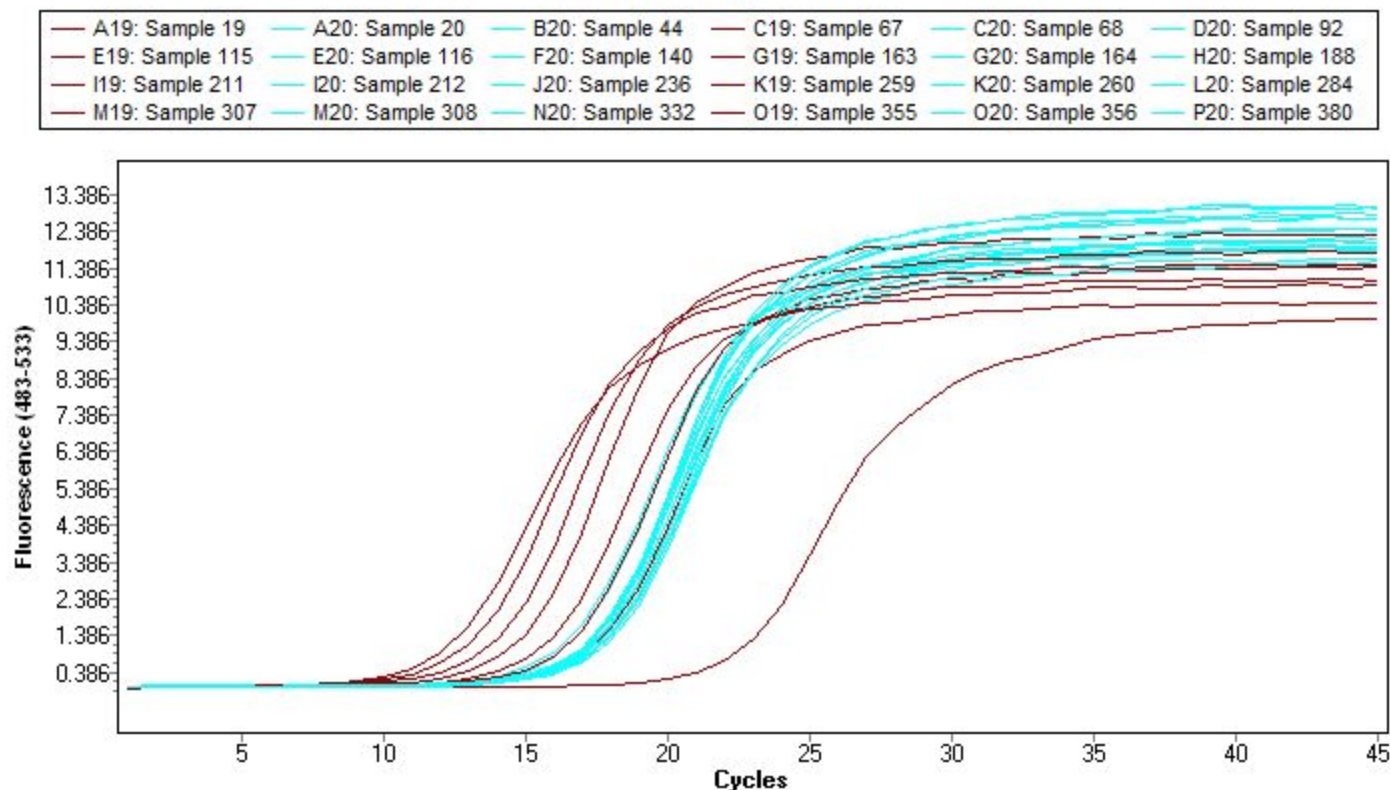
| | |
|-------------|-------|
| Subset Name | h36B4 |
|-------------|-------|

Results

| Inc | Pos | Name | Type | CP | Concentration | Standard | Status |
|-------------------------------------|-----|------------|------------------|-------|---------------|----------|--------|
| <input checked="" type="checkbox"/> | A19 | Sample 19 | Negative Control | 22.16 | 2.06E-3 | | |
| <input checked="" type="checkbox"/> | A20 | Sample 20 | Unknown | 16.31 | 1.99E0 | | |
| <input checked="" type="checkbox"/> | B20 | Sample 44 | Unknown | 17.30 | 8.01E-1 | | E |
| <input checked="" type="checkbox"/> | C19 | Sample 67 | Standard | 17.07 | 9.93E-1 | 1.00E0 | |
| <input checked="" type="checkbox"/> | C20 | Sample 68 | Unknown | 16.17 | 2.24E0 | | |
| <input checked="" type="checkbox"/> | D20 | Sample 92 | Unknown | 17.20 | 8.76E-1 | | E |
| <input checked="" type="checkbox"/> | E19 | Sample 115 | Standard | 16.27 | 2.05E0 | 2.00E0 | |
| <input checked="" type="checkbox"/> | E20 | Sample 116 | Unknown | 17.60 | 5.92E-1 | | E |
| <input checked="" type="checkbox"/> | F20 | Sample 140 | Unknown | 17.35 | 7.58E-1 | | E |
| <input checked="" type="checkbox"/> | G19 | Sample 163 | Standard | 15.48 | 3.94E0 | 4.00E0 | |
| <input checked="" type="checkbox"/> | G20 | Sample 164 | Unknown | 17.65 | 5.62E-1 | | E |
| <input checked="" type="checkbox"/> | H20 | Sample 188 | Unknown | 17.51 | 6.48E-1 | | E |
| <input checked="" type="checkbox"/> | I19 | Sample 211 | Standard | 14.57 | 8.02E0 | 8.00E0 | |
| <input checked="" type="checkbox"/> | I20 | Sample 212 | Unknown | 17.17 | 9.02E-1 | | E |
| <input checked="" type="checkbox"/> | J20 | Sample 236 | Unknown | 16.96 | 1.10E0 | | |
| <input checked="" type="checkbox"/> | K19 | Sample 259 | Standard | 13.68 | 1.61E1 | 1.60E1 | |
| <input checked="" type="checkbox"/> | K20 | Sample 260 | Unknown | 17.56 | 6.15E-1 | | E |
| <input checked="" type="checkbox"/> | L20 | Sample 284 | Unknown | 17.08 | 9.86E-1 | | E |
| <input checked="" type="checkbox"/> | M19 | Sample 307 | Standard | 12.75 | 3.34E1 | 3.20E1 | |
| <input checked="" type="checkbox"/> | M20 | Sample 308 | Unknown | 17.12 | 9.48E-1 | | E |
| <input checked="" type="checkbox"/> | N20 | Sample 332 | Unknown | 17.03 | 1.04E0 | | |
| <input checked="" type="checkbox"/> | O19 | Sample 355 | Standard | 11.97 | 6.17E1 | 6.40E1 | |
| <input checked="" type="checkbox"/> | O20 | Sample 356 | Unknown | 17.02 | 1.04E0 | | |
| <input checked="" type="checkbox"/> | P20 | Sample 380 | Unknown | 17.04 | 1.02E0 | | |

E - Extrapolated concentration in standard curve

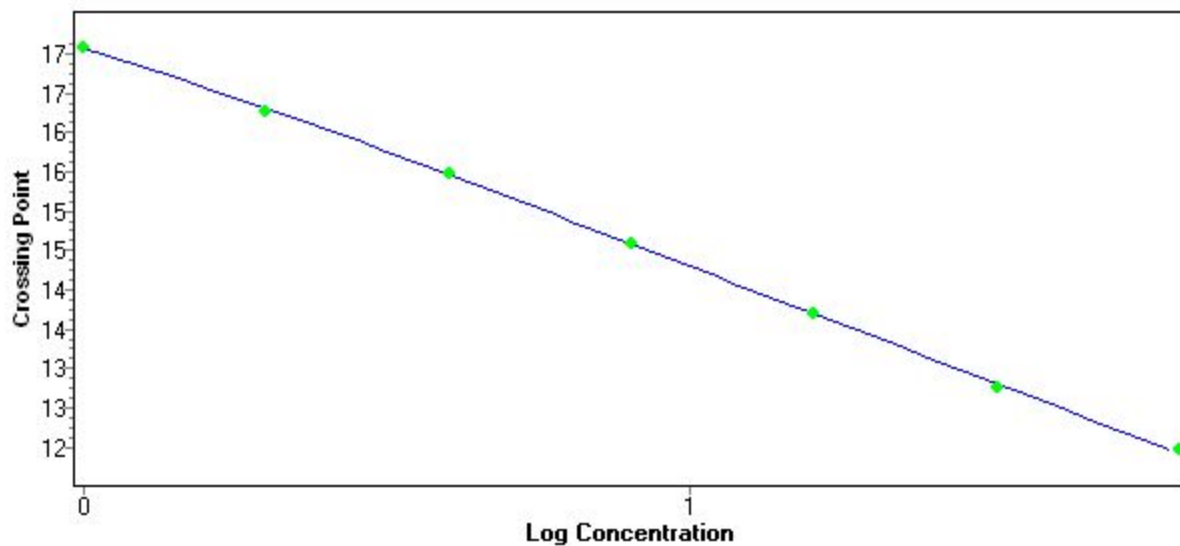
Amplification Curves



Standard Curve

— Std. curve ● Samples

Error: 0.00397
 Efficiency: 2.188
 Slope: -2.942
 YIntercept: 17.23
 Link: 3.943



Analysis Notes

Tm Calling for h36B4 (Tm Calling)

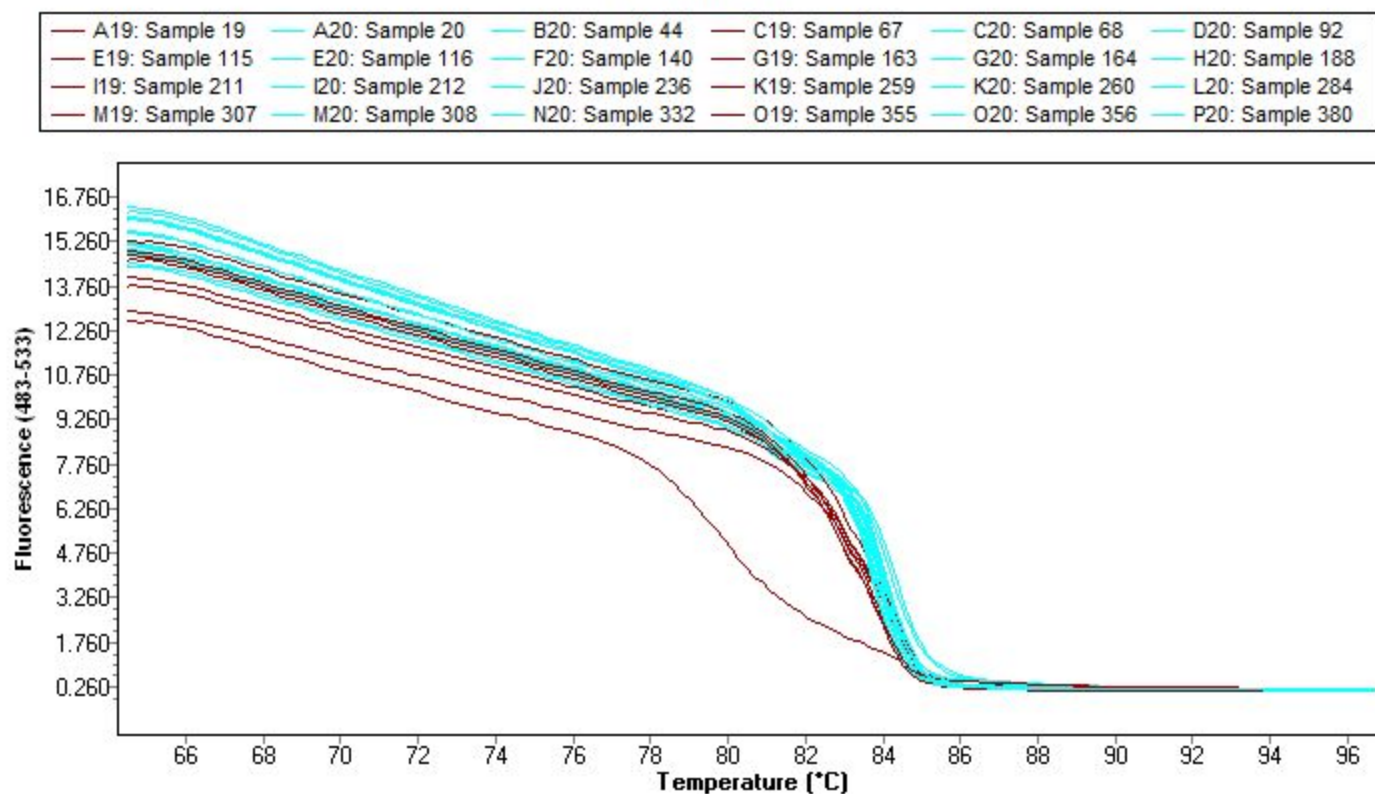
Settings

| | | | | | |
|----------------|---------------|--------------------|----------|-----------|---|
| Channel | 483-533 | Color Compensation | Off | | |
| Program | melting curve | | | | |
| Show Shoulders | False | Chemistry | HybProbe | Max Peaks | 2 |
| Subset Name | h36B4 | | | | |

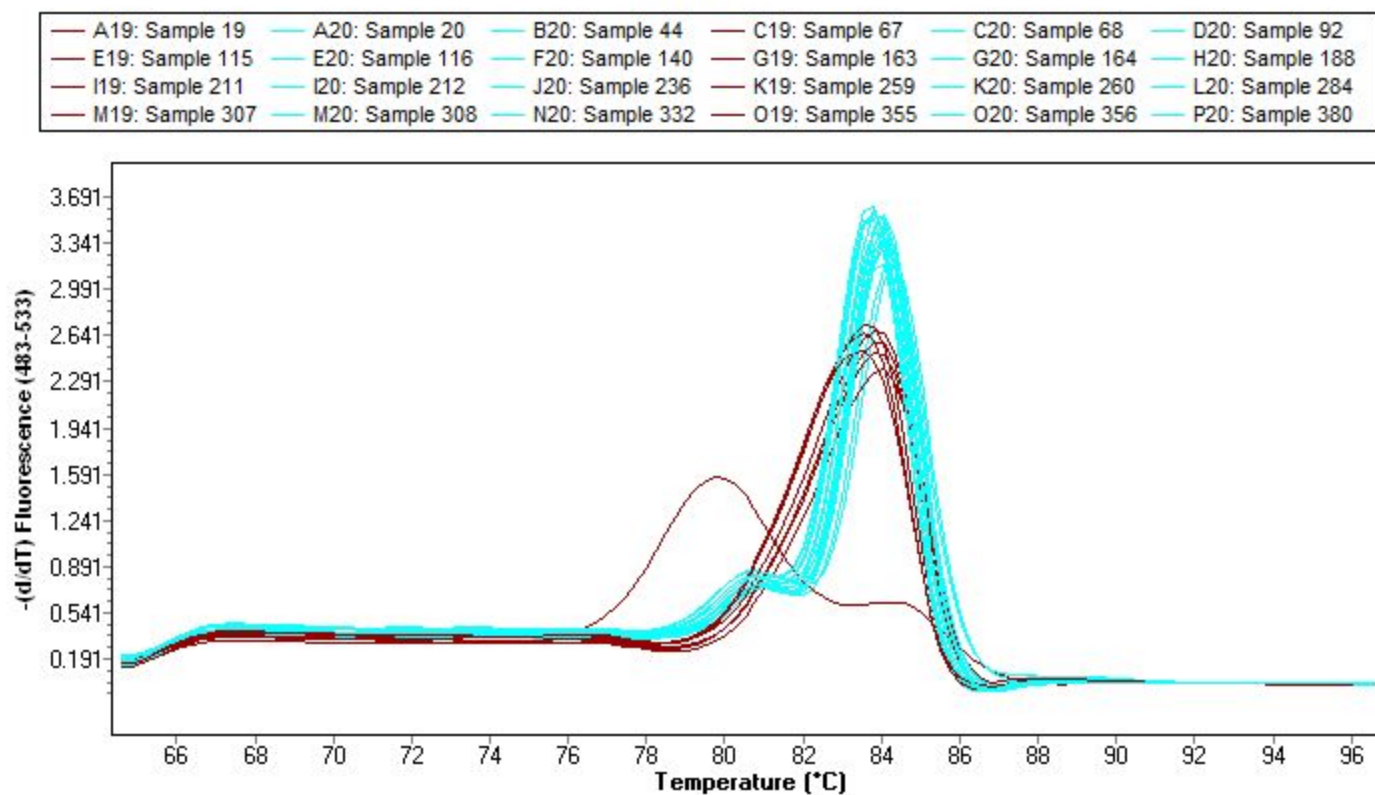
Results

| Inc | Pos | Sample Name | Peak 1 | | | | Peak 2 | | | | Status |
|-------------------------------------|-----|-------------|--------|------|-------|--------|--------|------|-------|--------|--------|
| | | | Tm | Area | Width | Height | Tm | Area | Width | Height | |
| <input checked="" type="checkbox"/> | A19 | Sample 19 | 80.02 | 5.47 | 3.43 | 1.60 | 84.40 | 2.64 | 3.98 | 0.66 | |
| <input checked="" type="checkbox"/> | A20 | Sample 20 | 81.16 | 0.80 | 1.63 | 0.49 | 84.38 | 7.28 | 2.29 | 3.18 | |
| <input checked="" type="checkbox"/> | B20 | Sample 44 | 84.28 | 7.95 | 2.65 | 3.00 | | | | | |
| <input checked="" type="checkbox"/> | C19 | Sample 67 | 83.77 | 7.70 | 3.13 | 2.46 | | | | | |
| <input checked="" type="checkbox"/> | C20 | Sample 68 | 84.14 | 8.01 | 2.34 | 3.42 | | | | | |
| <input checked="" type="checkbox"/> | D20 | Sample 92 | 84.09 | 8.12 | 2.31 | 3.52 | | | | | |
| <input checked="" type="checkbox"/> | E19 | Sample 115 | 83.69 | 8.47 | 3.15 | 2.69 | | | | | |
| <input checked="" type="checkbox"/> | E20 | Sample 116 | 84.03 | 8.29 | 2.31 | 3.58 | | | | | |
| <input checked="" type="checkbox"/> | F20 | Sample 140 | 83.99 | 7.51 | 2.36 | 3.18 | | | | | |
| <input checked="" type="checkbox"/> | G19 | Sample 163 | 83.70 | 8.27 | 3.18 | 2.60 | | | | | |
| <input checked="" type="checkbox"/> | G20 | Sample 164 | 84.04 | 7.93 | 2.32 | 3.41 | | | | | |
| <input checked="" type="checkbox"/> | H20 | Sample 188 | 84.10 | 7.80 | 2.32 | 3.36 | | | | | |
| <input checked="" type="checkbox"/> | I19 | Sample 211 | 83.69 | 9.18 | 3.31 | 2.77 | | | | | |
| <input checked="" type="checkbox"/> | I20 | Sample 212 | 84.08 | 7.95 | 2.32 | 3.43 | | | | | |
| <input checked="" type="checkbox"/> | J20 | Sample 236 | 83.90 | 8.29 | 2.55 | 3.25 | | | | | |
| <input checked="" type="checkbox"/> | K19 | Sample 259 | 83.41 | 8.90 | 3.15 | 2.83 | | | | | |
| <input checked="" type="checkbox"/> | K20 | Sample 260 | 83.72 | 8.74 | 2.56 | 3.42 | | | | | |
| <input checked="" type="checkbox"/> | L20 | Sample 284 | 83.72 | 8.50 | 2.56 | 3.32 | | | | | |
| <input checked="" type="checkbox"/> | M19 | Sample 307 | 83.32 | 8.69 | 3.15 | 2.76 | | | | | |
| <input checked="" type="checkbox"/> | M20 | Sample 308 | 83.72 | 8.90 | 2.56 | 3.48 | | | | | |
| <input checked="" type="checkbox"/> | N20 | Sample 332 | 83.81 | 8.58 | 2.54 | 3.38 | | | | | |
| <input checked="" type="checkbox"/> | O19 | Sample 355 | 83.31 | 8.37 | 3.18 | 2.63 | | | | | |
| <input checked="" type="checkbox"/> | O20 | Sample 356 | 83.92 | 8.66 | 2.56 | 3.39 | | | | | |
| <input checked="" type="checkbox"/> | P20 | Sample 380 | 84.09 | 8.51 | 2.37 | 3.59 | | | | | |

Melting Curves



Melting Peaks



Analysis Notes